

C-m
Ram

1600

RAW SEQUENCE LISTING

DATE: 05/20/2003

PATENT APPLICATION: US/09/673,785D

TIME: 13:46:20

Input Set : A:\8830_170_v2.ST25.txt

Output Set: N:\CRF4\05192003\I673785D.raw

3 <110> APPLICANT: The Queen's University of Belfast
 4 Nelson, John
 5 Walker, Brian
 6 McFerran, Neil
 7 Patrick, Harriot
 9 <120> TITLE OF INVENTION: Peptide Fragments of Murine Epidermal Growth Factor as
 Laminin
 10 Receptor Targets
 12 <130> FILE REFERENCE: 8830-170 (43784-181696)
 14 <140> CURRENT APPLICATION NUMBER: US 09/673,785D
 15 <141> CURRENT FILING DATE: 2000-12-29
 17 <150> PRIOR APPLICATION NUMBER: PCT/GB99/01211
 18 <151> PRIOR FILING DATE: 1999-04-21
 20 <150> PRIOR APPLICATION NUMBER: GB 9808407.2
 21 <151> PRIOR FILING DATE: 1998-04-22
 23 <160> NUMBER OF SEQ ID NOS: 31
 25 <170> SOFTWARE: PatentIn version 3.2
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 9
 29 <212> TYPE: PRT
 30 <213> ORGANISM: Artificial Sequence
 32 <220> FEATURE:
 33 <223> OTHER INFORMATION: Artificial Sequence based on linear sequence of amino acids
 34 925-933 of mature murine laminin B1 chain
 37 <220> FEATURE:
 38 <221> NAME/KEY: MOD_RES
 39 <222> LOCATION: (9)..(9)
 40 <223> OTHER INFORMATION: AMIDATION
 42 <400> SEQUENCE: 1
 44 Cys Asp Pro Gly Tyr Ile Gly Ser Arg
 45 1 5
 48 <210> SEQ ID NO: 2
 49 <211> LENGTH: 10
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Artificial Sequence
 53 <220> FEATURE:
 54 <223> OTHER INFORMATION: Artificial Sequence based on amino acid residues 33 to 42 of
 55 murine epidermal growth factor (mEGF)
 57 <400> SEQUENCE: 2
 59 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys
 60 1 5 10
 63 <210> SEQ ID NO: 3
 64 <211> LENGTH: 10
 65 <212> TYPE: PRT

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66 <213> ORGANISM: Artificial Sequence
 68 <220> FEATURE:
 69 <223> OTHER INFORMATION: Synthetic construct
 72 <220> FEATURE:
 73 <221> NAME/KEY: MISC_FEATURE
 74 <222> LOCATION: (5)..(5)
 75 <223> OTHER INFORMATION: tyrosine analogue at position 5
 77 <400> SEQUENCE: 3

W--> 79 Cys Val Ile Gly Xaa Ser Gly Asp Arg Cys

80 1 5 10

83 <210> SEQ ID NO: 4

84 <211> LENGTH: 10

85 <212> TYPE: PRT

86 <213> ORGANISM: Artificial Sequence

88 <220> FEATURE:

89 <223> OTHER INFORMATION: Synthetic construct

92 <220> FEATURE:

93 <221> NAME/KEY: MISC_FEATURE

94 <222> LOCATION: (9)..(9)

95 <223> OTHER INFORMATION: arginine analogue at position 9

97 <400> SEQUENCE: 4

W--> 99 Cys Val Ile Gly Tyr Ser Gly Asp Xaa Cys

100 1 5 10

103 <210> SEQ ID NO: 5

104 <211> LENGTH: 10

105 <212> TYPE: PRT

106 <213> ORGANISM: Artificial Sequence

108 <220> FEATURE:

109 <223> OTHER INFORMATION: Synthetic construct

112 <220> FEATURE:

113 <221> NAME/KEY: MOD_RES

114 <222> LOCATION: (1)..(1)

115 <223> OTHER INFORMATION: ACETYLTATION

117 <400> SEQUENCE: 5

119 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys

120 1 5 10

123 <210> SEQ ID NO: 6

124 <211> LENGTH: 10

125 <212> TYPE: PRT

126 <213> ORGANISM: Artificial Sequence

128 <220> FEATURE:

129 <223> OTHER INFORMATION: Synthetic construct

132 <220> FEATURE:

133 <221> NAME/KEY: MOD_RES

134 <222> LOCATION: (10)..(10)

135 <223> OTHER INFORMATION: AMIDATION

137 <400> SEQUENCE: 6

139 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys

140 1 5 10

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Input Set : A:\8830_170_v2.ST25.txt

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143 <210> SEQ ID NO: 7
 144 <211> LENGTH: 10
 145 <212> TYPE: PRT
 146 <213> ORGANISM: Artificial Sequence
 148 <220> FEATURE:
 149 <223> OTHER INFORMATION: Synthetic construct
 152 <220> FEATURE:
 153 <221> NAME/KEY: MOD_RES
 154 <222> LOCATION: (1)..(1)
 155 <223> OTHER INFORMATION: Acteoamido methyl group
 157 <220> FEATURE:
 158 <221> NAME/KEY: MOD_RES
 159 <222> LOCATION: (1)..(1)
 160 <223> OTHER INFORMATION: ACETYLATION
 162 <220> FEATURE:
 163 <221> NAME/KEY: MOD_RES
 164 <222> LOCATION: (10)..(10)
 165 <223> OTHER INFORMATION: AMIDATION
 167 <220> FEATURE:
 168 <221> NAME/KEY: MOD_RES
 169 <222> LOCATION: (10)..(10)
 170 <223> OTHER INFORMATION: Acteoamido methyl group
 172 <400> SEQUENCE: 7

174 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys
 175 1 5 10

178 <210> SEQ ID NO: 8
 179 <211> LENGTH: 10
 180 <212> TYPE: PRT
 181 <213> ORGANISM: Artificial Sequence
 183 <220> FEATURE:
 184 <223> OTHER INFORMATION: Synthetic construct
 187 <220> FEATURE:
 188 <221> NAME/KEY: MISC_FEATURE
 189 <222> LOCATION: (5)..(5)
 190 <223> OTHER INFORMATION: tyrosine analog
 192 <400> SEQUENCE: 8

W--> 194 Cys Val Ile Gly Xaa Ser Gly Asp Arg Cys
 195 1 5 10

198 <210> SEQ ID NO: 9
 199 <211> LENGTH: 10
 200 <212> TYPE: PRT
 201 <213> ORGANISM: Artificial Sequence
 203 <220> FEATURE:
 204 <223> OTHER INFORMATION: Synthetic construct
 207 <220> FEATURE:
 208 <221> NAME/KEY: MISC_FEATURE
 209 <222> LOCATION: (9)..(9)
 210 <223> OTHER INFORMATION: Citrulline at position 9
 212 <400> SEQUENCE: 9

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Input Set : A:\8830_170_v2.ST25.txt

Output Set: N:\CRF4\05192003\I673785D.raw

W--> 214 Cys Val Ile Gly Tyr Ser Gly Asp Xaa Cys

215 1 5 10

218 <210> SEQ ID NO: 10

219 <211> LENGTH: 9

220 <212> TYPE: PRT

221 <213> ORGANISM: Artificial Sequence

223 <220> FEATURE:

224 <223> OTHER INFORMATION: Synthetic construct

227 <220> FEATURE:

228 <221> NAME/KEY: MISC_FEATURE

229 <222> LOCATION: (5)..(5)

230 <223> OTHER INFORMATION: 2',6'-dimethyl-beta-methyl-tyrosine at position 5 of linear
231 sequence of amino acids 925-933 of the mature murine b1 chain

233 <400> SEQUENCE: 10

W--> 235 Cys Asp Pro Gly Xaa Ile Gly Ser Arg

236 1 5

239 <210> SEQ ID NO: 11

240 <211> LENGTH: 9

241 <212> TYPE: PRT

242 <213> ORGANISM: Artificial Sequence

244 <220> FEATURE:

245 <223> OTHER INFORMATION: Synthetic construct

248 <220> FEATURE:

249 <221> NAME/KEY: MISC_FEATURE

250 <222> LOCATION: (5)..(5)

251 <223> OTHER INFORMATION: 2-O-methyl-tyrosine at position 5 of linear sequence of
amino

252 acids 925-933 of the mature murine b1 chain

254 <400> SEQUENCE: 11

W--> 256 Cys Asp Pro Gly Xaa Ile Gly Ser Arg

257 1 5

260 <210> SEQ ID NO: 12

261 <211> LENGTH: 9

262 <212> TYPE: PRT

263 <213> ORGANISM: Artificial Sequence

265 <220> FEATURE:

266 <223> OTHER INFORMATION: Synthetic construct

269 <220> FEATURE:

270 <221> NAME/KEY: MISC_FEATURE

271 <222> LOCATION: (5)..(5)

272 <223> OTHER INFORMATION: 2-O-ethyl-tyrosine at position 5 of linear sequence of amino
273 acids 925-933 of the mature murine b1 chain

275 <400> SEQUENCE: 12

W--> 277 Cys Asp Pro Gly Xaa Ile Gly Ser Arg

278 1 5

281 <210> SEQ ID NO: 13

282 <211> LENGTH: 10

283 <212> TYPE: PRT

284 <213> ORGANISM: Artificial Sequence

286 <220> FEATURE:

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Input Set : A:\8830_170_v2.ST25.txt

Output Set: N:\CRF4\05192003\I673785D.raw

287 <223> OTHER INFORMATION: Synthetic construct
 290 <220> FEATURE:
 291 <221> NAME/KEY: MISC_FEATURE
 292 <222> LOCATION: (5)..(5)
 293 <223> OTHER INFORMATION: tyrosine analog
 295 <220> FEATURE:
 296 <221> NAME/KEY: MISC_FEATURE
 297 <222> LOCATION: (9)..(9)
 298 <223> OTHER INFORMATION: Citrulline at position 9 of sequence based on mEGF 32-42
 300 <400> SEQUENCE: 13
W--> 302 Cys Val Ile Gly Xaa Ser Gly Asp Xaa Cys
 303 1 5 10
 306 <210> SEQ ID NO: 14
 307 <211> LENGTH: 10
 308 <212> TYPE: PRT
 309 <213> ORGANISM: Artificial Sequence
 311 <220> FEATURE:
 312 <223> OTHER INFORMATION: Synthetic construct
 315 <220> FEATURE:
 316 <221> NAME/KEY: DISULFID
 317 <222> LOCATION: (1)..(10)
 318 <223> OTHER INFORMATION: Disulphide bond between N and C terminal cysteines of
 sequence
 319 based on mEGF 33-42
 321 <400> SEQUENCE: 14
 323 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys
 324 1 5 10
 327 <210> SEQ ID NO: 15
 328 <211> LENGTH: 20
 329 <212> TYPE: PRT
 330 <213> ORGANISM: Artificial Sequence
 332 <220> FEATURE:
 333 <223> OTHER INFORMATION: Artificial Sequence corresponding to COOH terminal end of
 the
 334 human laminin receptor
 336 <400> SEQUENCE: 15
 338 Pro Thr Glu Asp Trp Ser Ala Gln Pro Ala Thr Glu Asp Trp Ser Ala
 339 1 5 10 15
 342 Ala Pro Thr Ala
 343 20
 346 <210> SEQ ID NO: 16
 347 <211> LENGTH: 10
 348 <212> TYPE: PRT
 349 <213> ORGANISM: Artificial Sequence
 351 <220> FEATURE:
 352 <223> OTHER INFORMATION: Synthetic construct
 355 <220> FEATURE:
 356 <221> NAME/KEY: MOD_RES
 357 <222> LOCATION: (1)..(1)
 358 <223> OTHER INFORMATION: ACETYLTATION
 360 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/673,785D

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Input Set : A:\8830_170_v2.ST25.txt
Output Set: N:\CRF4\05192003\I673785D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 5 ✓
Seq#:4; Xaa Pos. 9 ✓
Seq#:8; Xaa Pos. 5 ✓
Seq#:9; Xaa Pos. 9 ✓
Seq#:10; Xaa Pos. 5 ✓
Seq#:11; Xaa Pos. 5 ✓
Seq#:12; Xaa Pos. 5 ✓
Seq#:13; Xaa Pos. 5, 9 ✓
Seq#:19; Xaa Pos. 9 ✓
Seq#:20; Xaa Pos. 5 ✓
Seq#:27; Xaa Pos. 3, 5 ✓
Seq#:29; Xaa Pos. 4, 7 ✓
Seq#:30; Xaa Pos. 4, 7 ✓
Seq#:31; Xaa Pos. 5 ✓

VERIFICATION SUMMARY

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Input Set : A:\8830_170_v2.ST25.txt

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L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0